Figure 1: PCI based ADSL Home Gateway

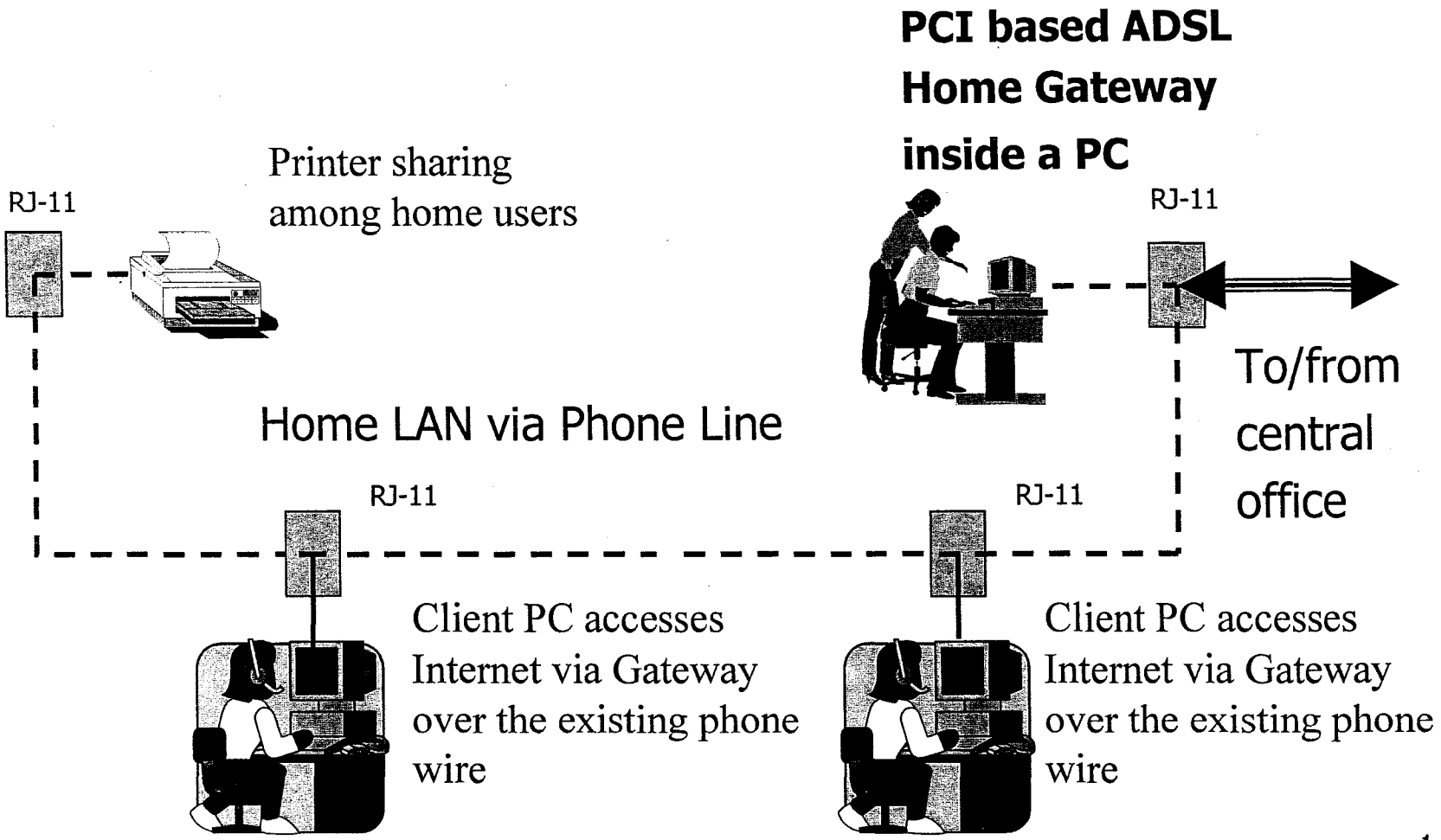


Figure 2: Stand-alone ADSL Home Gateway

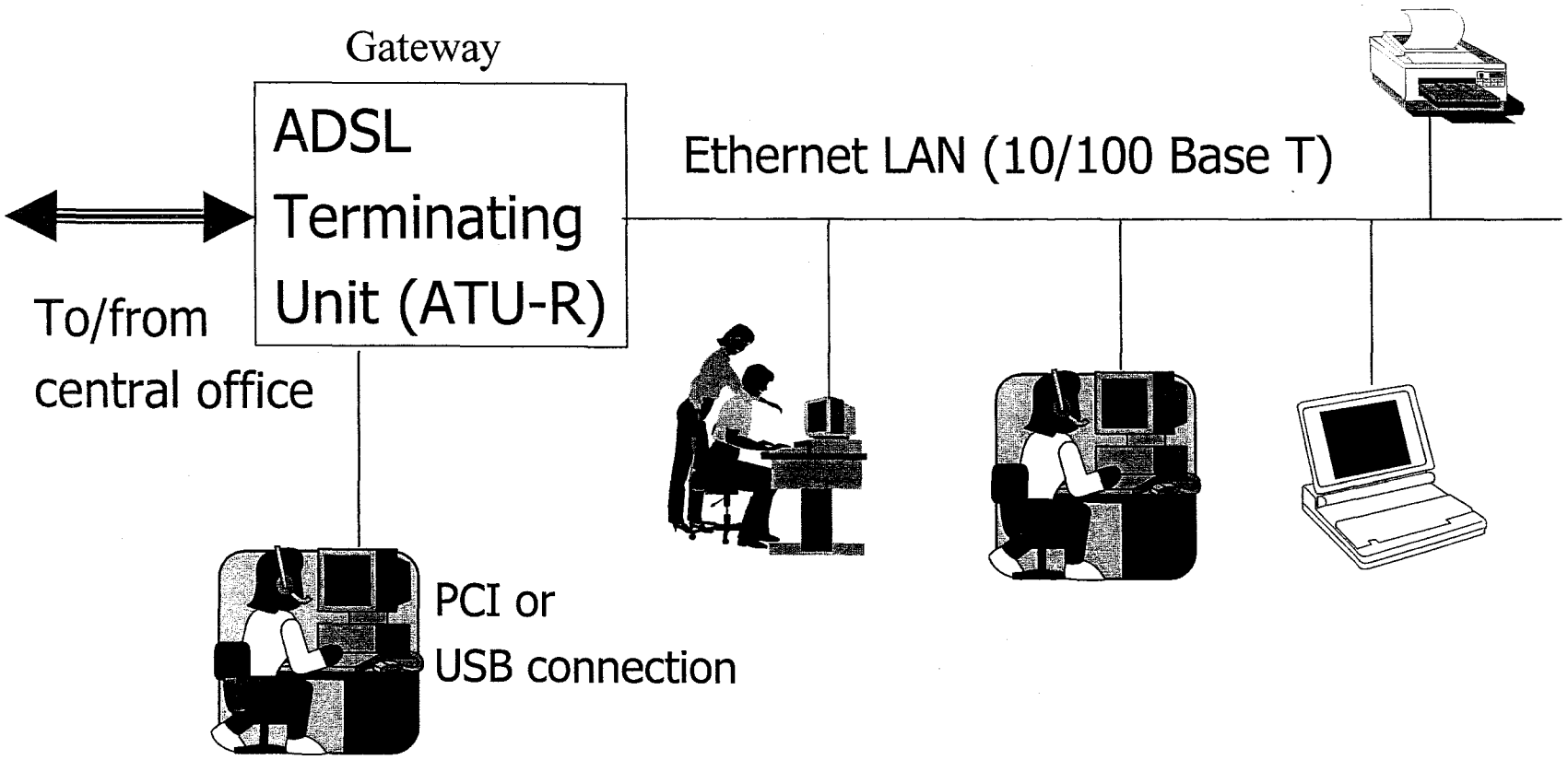


Figure 3: Phone-based and Integrated Home Gateway

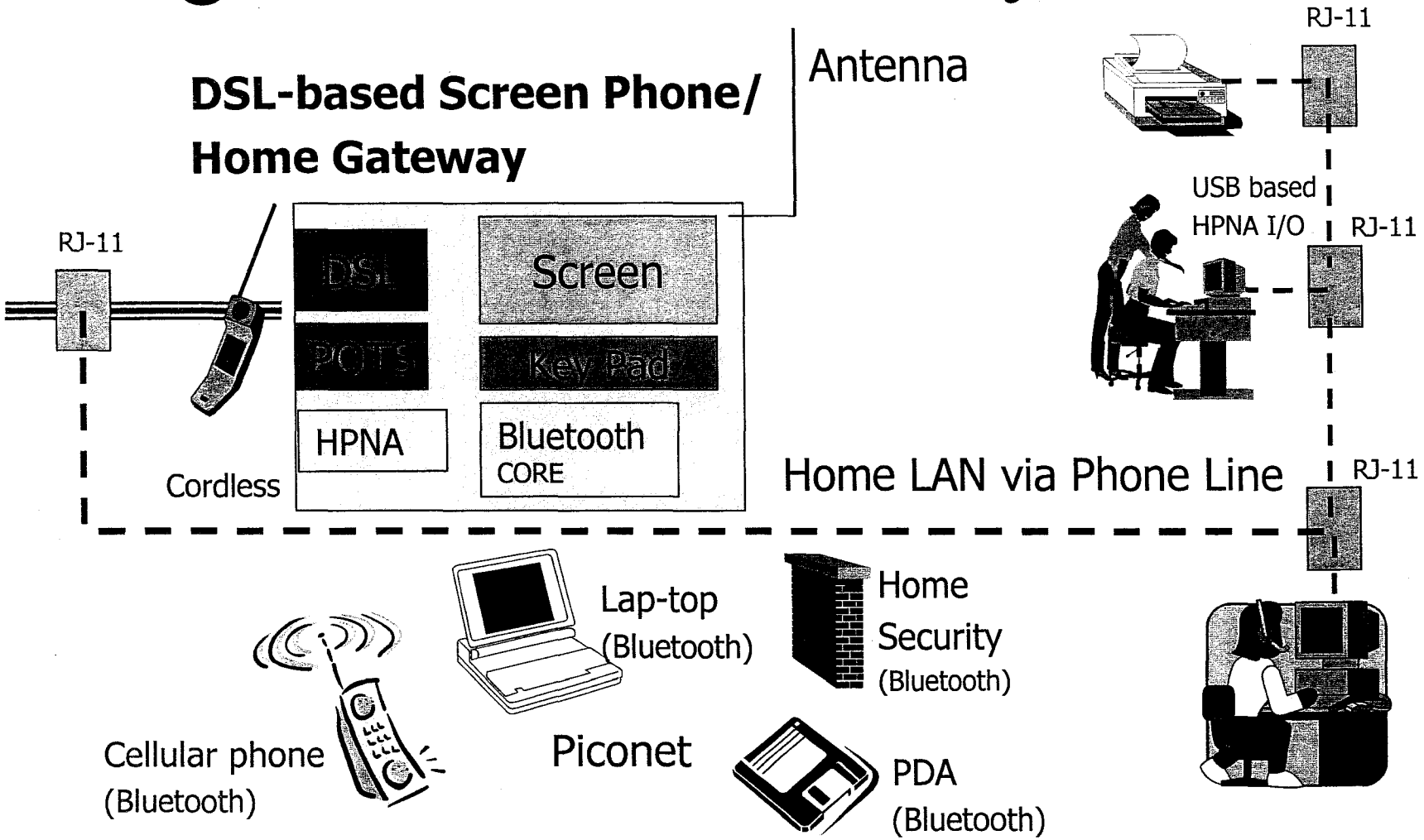


Figure 4: Phone-based Wireless Only Home Gateway

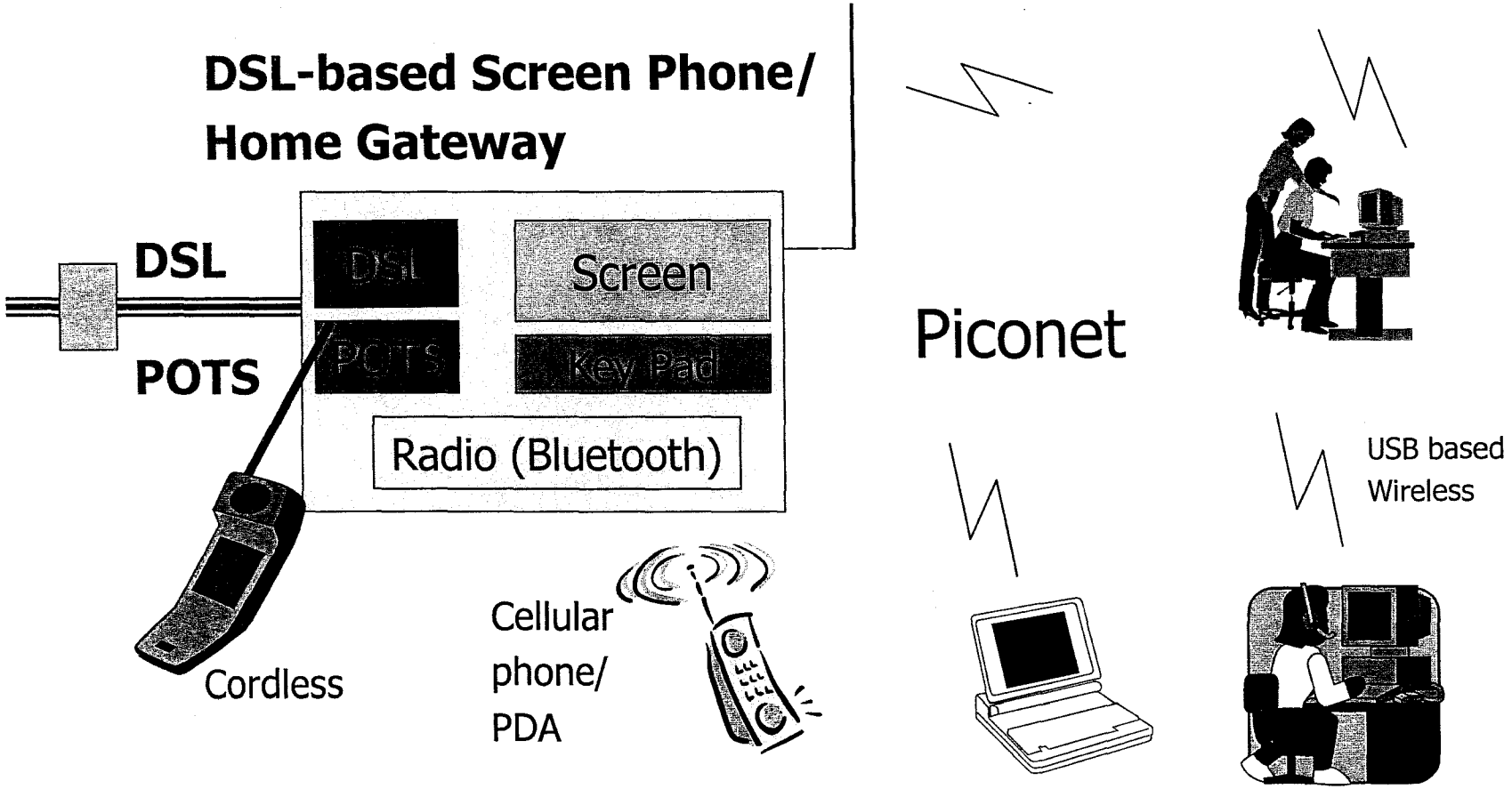
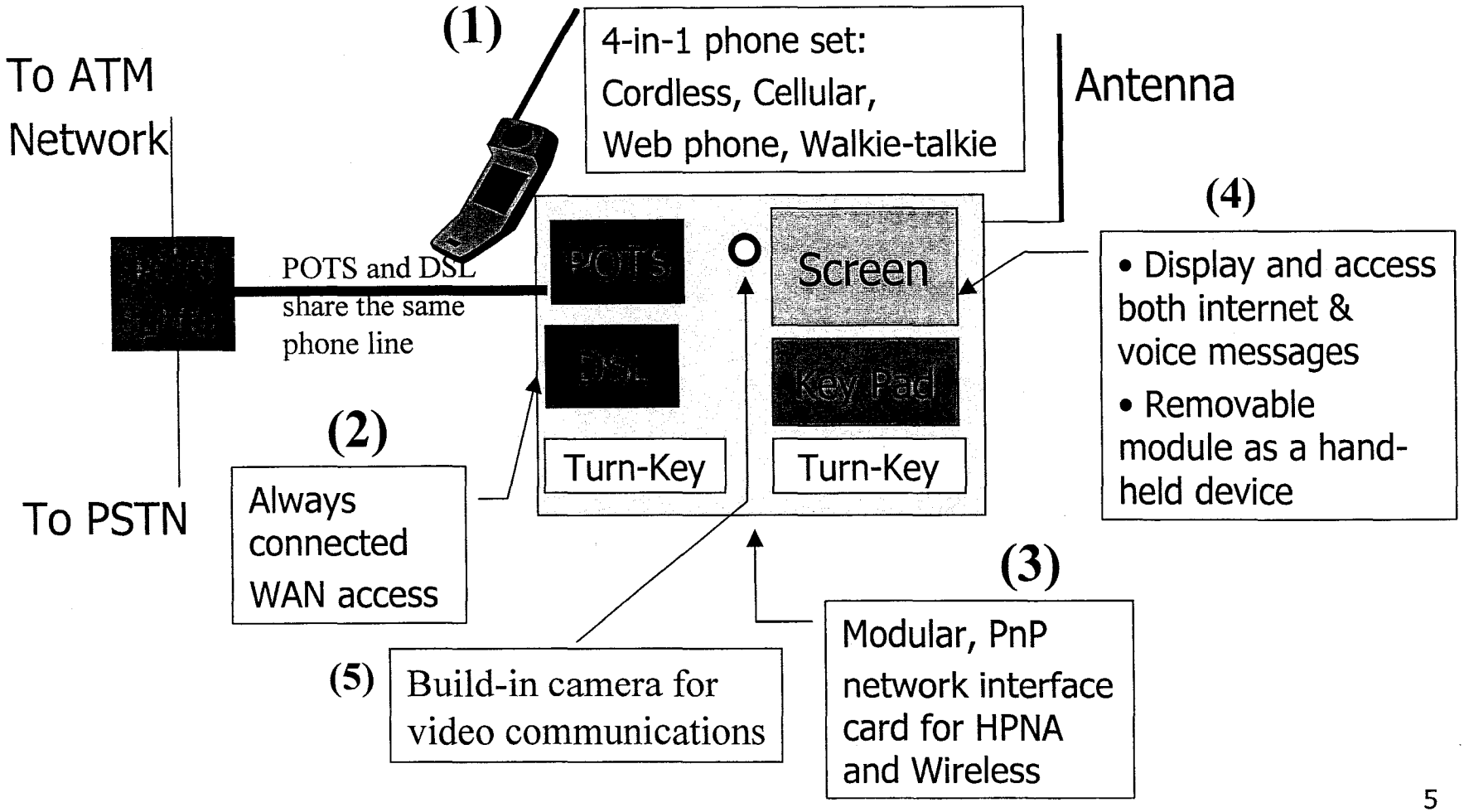


Figure 5: Phone-based Home Gateway Components



Architecture

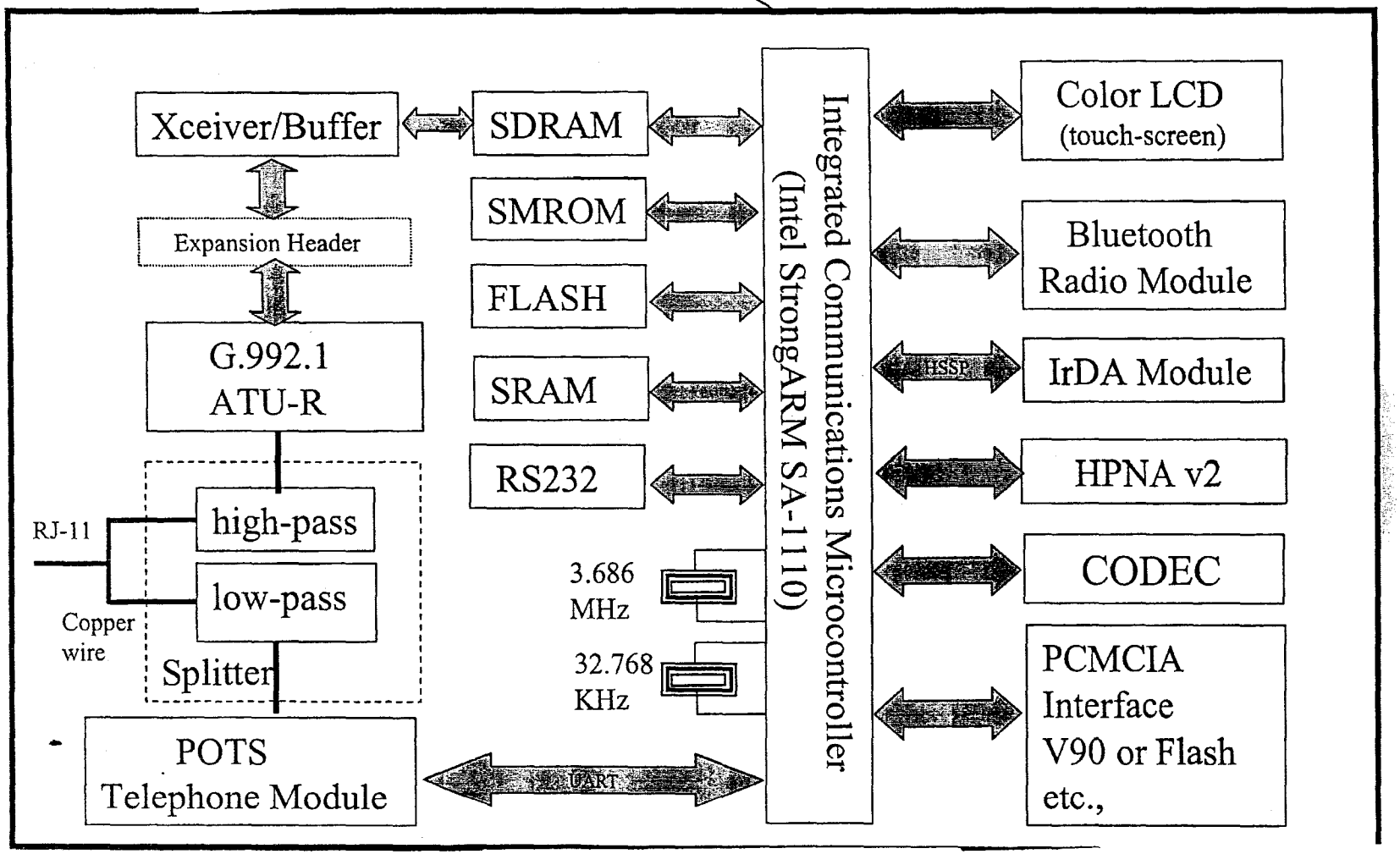


FIG. 6

High Level Software Architecture

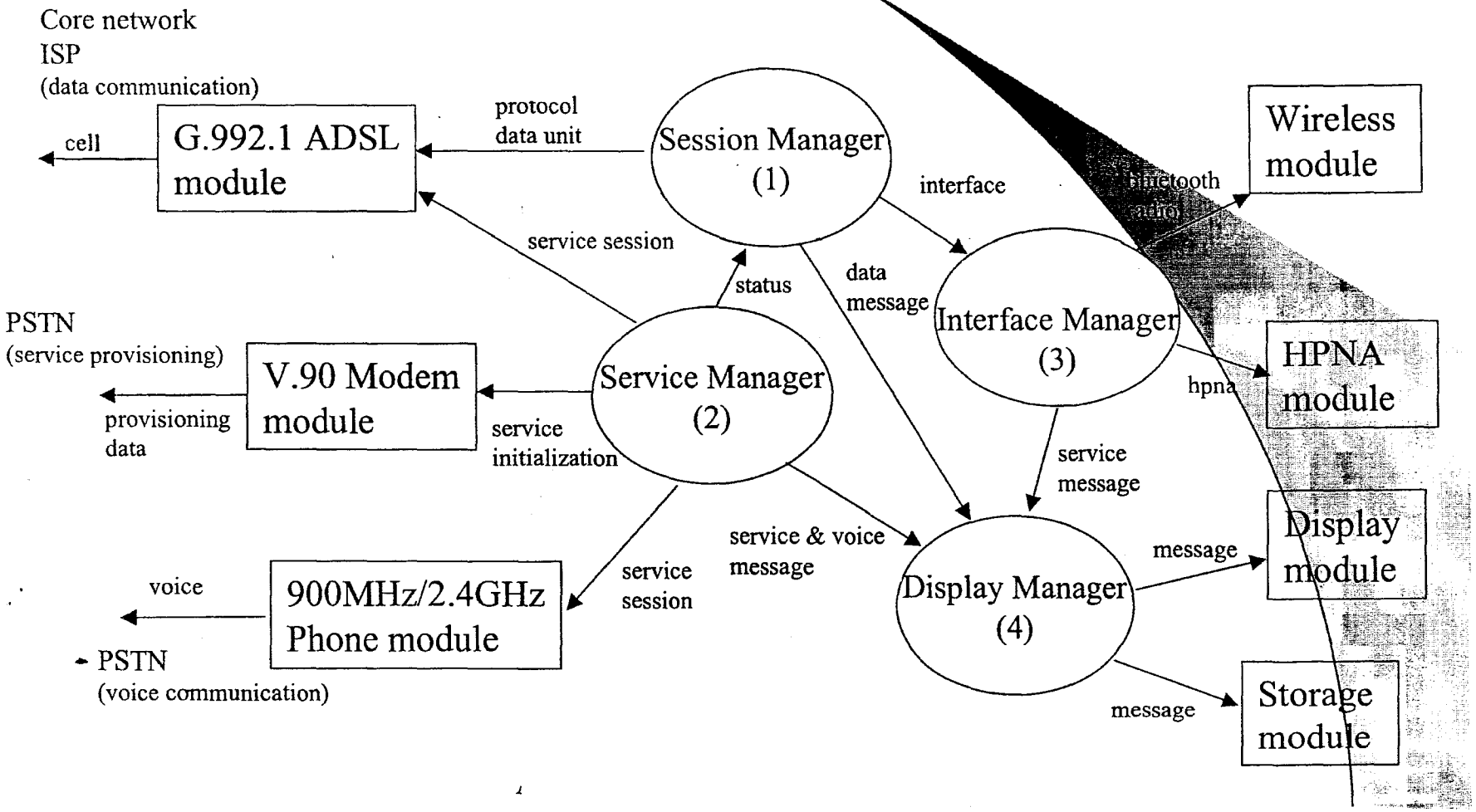


FIG. 7

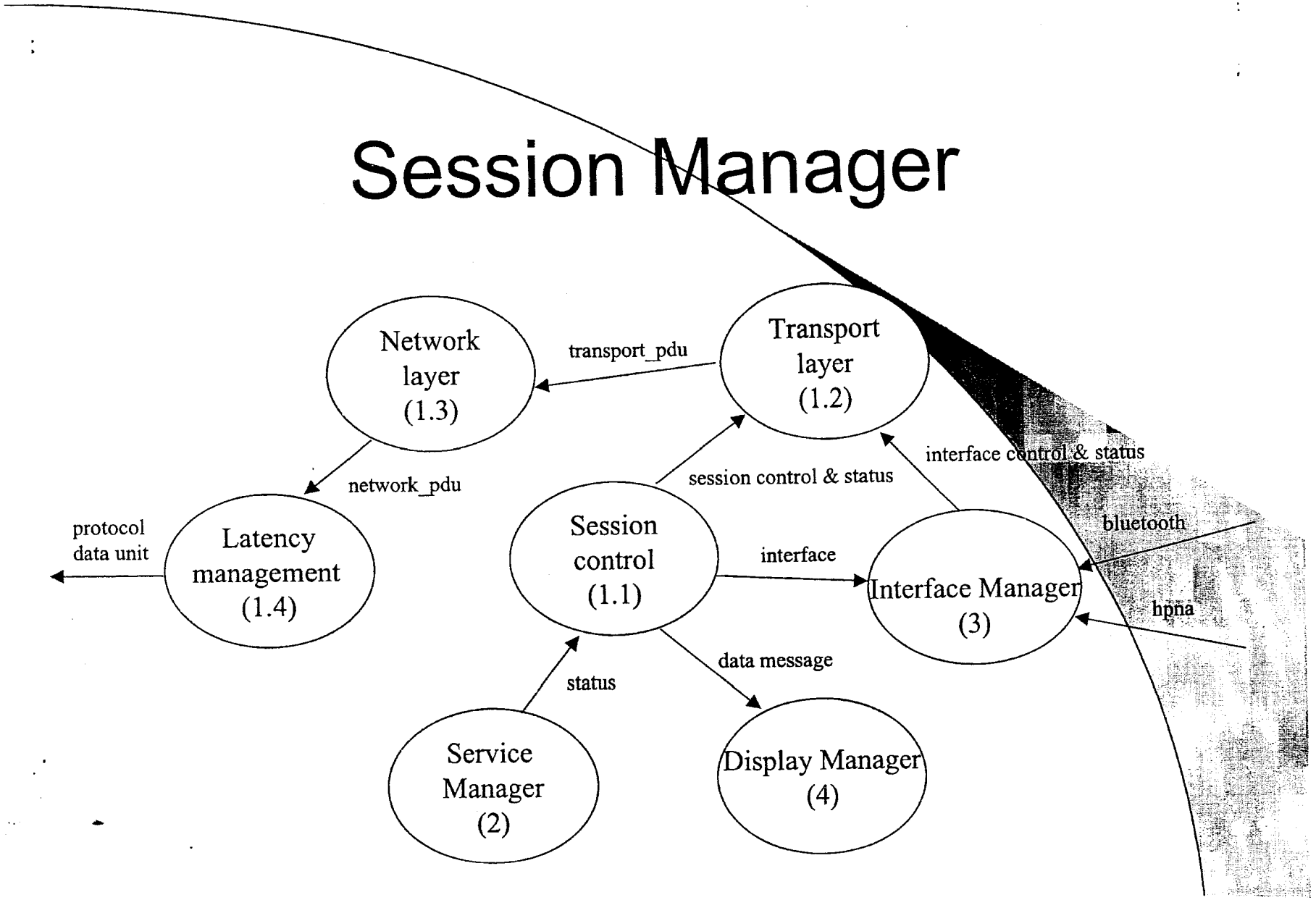

Session Manager
Network layer (1.3)
transport_pdu
Transport layer (1.2)
network_pdu
session control & status
interface control & status
protocol data unit
Latency management (1.4)
Session control (1.1)
interface
Interface Manager (3)
bluetooth
hpna
data message
status
Service Manager (2)
Display Manager (4)

FIG. 8

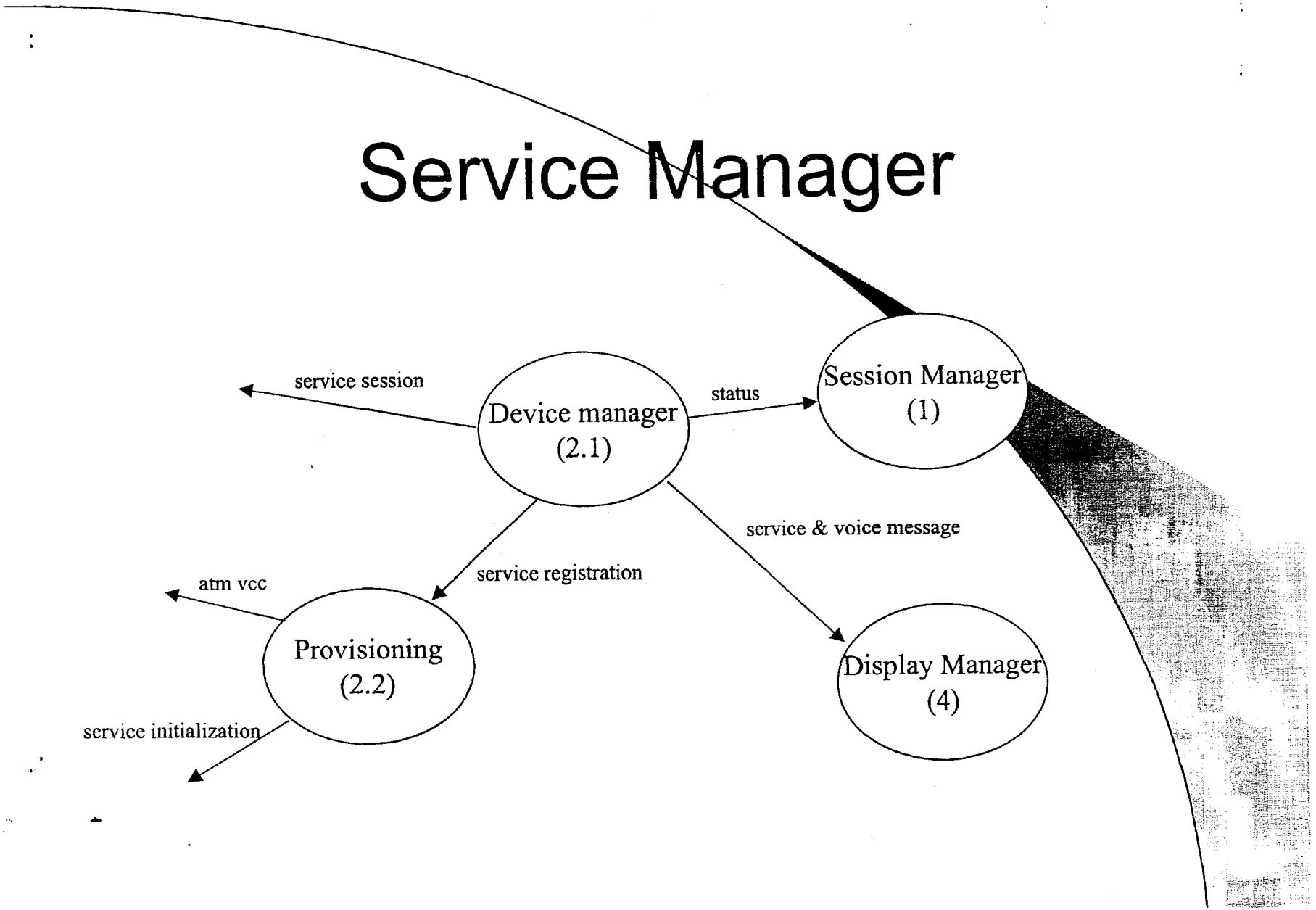

Service Manager
service session
Device manager
(2.1)
status
Session Manager
(1)
service & voice message
service registration
atm vcc
Provisioning
(2.2)
Display Manager
(4)
service initialization

FIG. 9

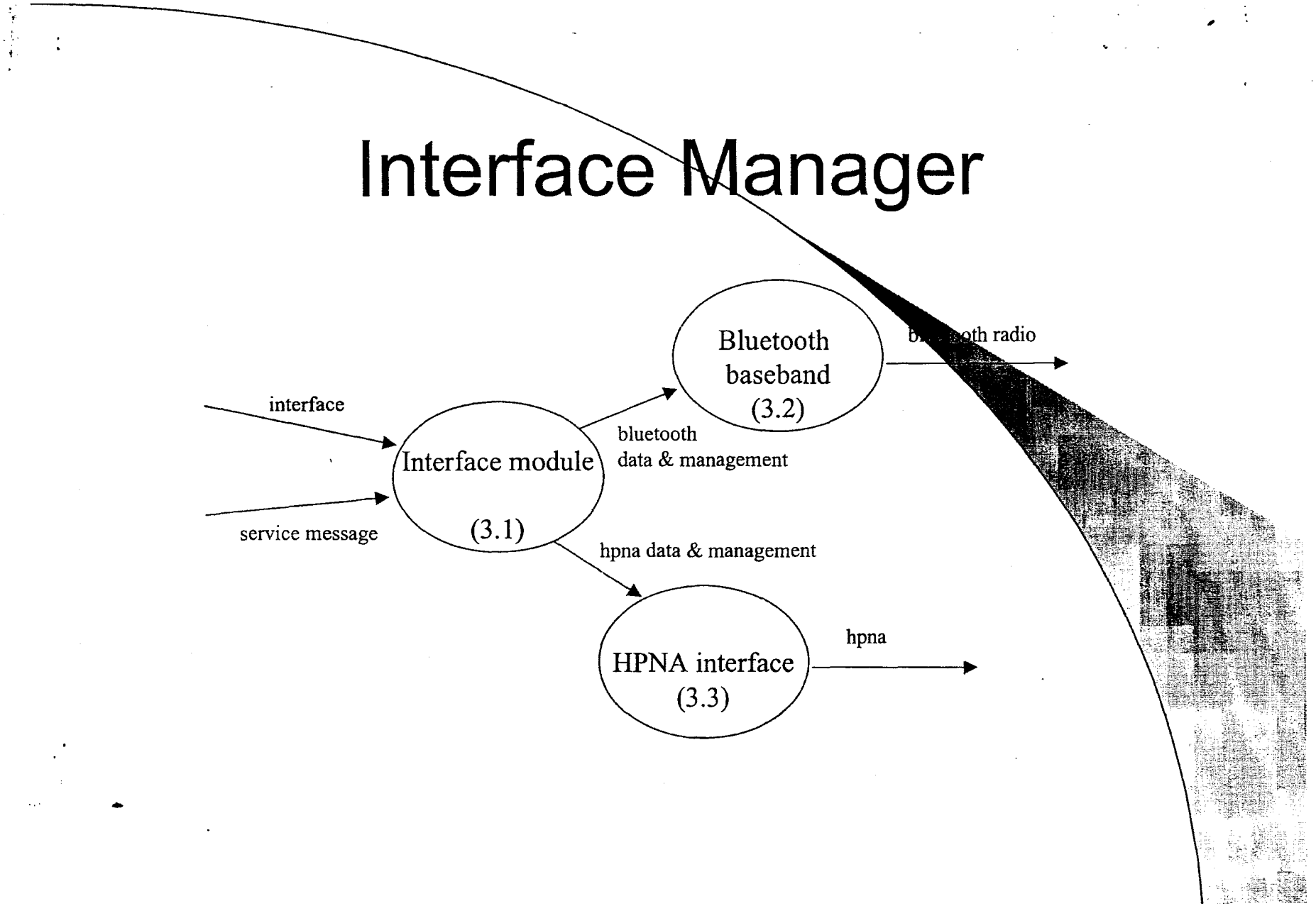

Interface Manager
Bluetooth baseband (3.2)
Bluetooth radio
interface
Interface module (3.1)
bluetooth data & management
service message
hpna data & management
HPNA interface (3.3)
hpna

FIG. 10

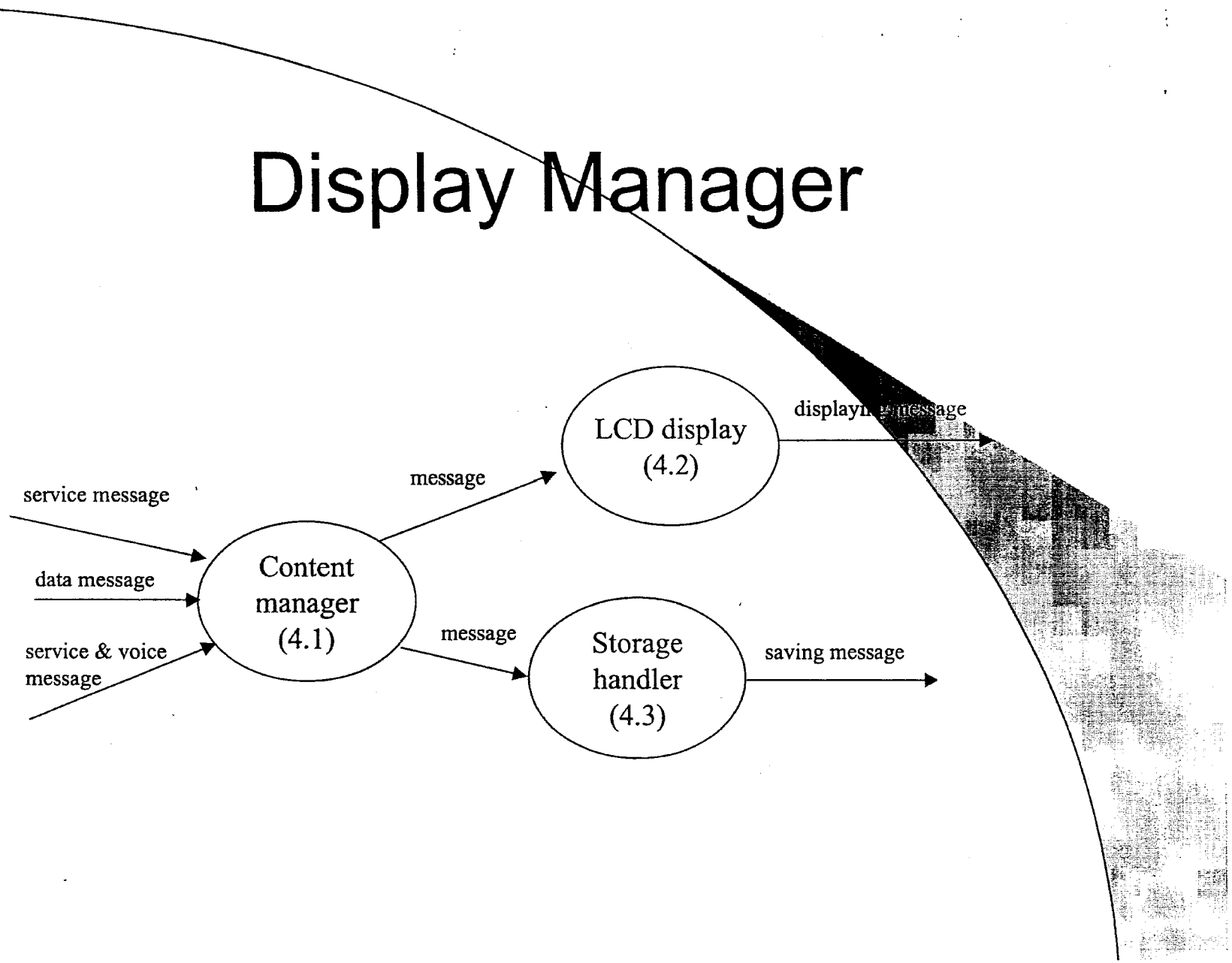

Display Manager
LCD display
(4.2)
displaying message
service message
message
data message
Content
manager
(4.1)
service & voice
message
message
Storage
handler
(4.3)
saving message

FIG. 11